

### Abstract of the Disclosure

An encoding method and apparatus of deformation information of a 3-dimensional (3D) object are provided. The encoding method of deformation information of a 3-Dimensional (3D) object, in which information on vertices forming the shape of the 3D object is described by a key framing method for performing deformation of the 3D object, the encoding method includes: (a) extracting keys indicating positions of key frames on a time axis, key values indicating characteristics information of key frames, and relation information, by parsing node information of the 3D object; (b) generating vertex connectivity information from the related information; (c) generating differential values for each of the keys from which temporal data redundancy is to be removed, and key values from which spatiotemporal data redundancy is to be removed, based on the vertex connectivity information; (d) quantizing the differential values; and (e) removing redundancy among bits and generating compressed bit stream through entropy encoding.